EG&G ER Program Rocky Flats Plant

ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

| Bato | ch No. <u>8912G684</u> | | Site 881 Hillside | | | | | | | | | | | |
|-------|--|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| Lab | oratory <u>Roy F. Weston - G</u> | ulf Coast | No. of Samples/Matrix 6/Water | | | | | | | | | | | |
| SOV | V # 10/86 (Rev. 2/88) | | Reviewer Org. <u>TechLaw, Inc.</u> | | | | | | | | | | | |
| Sam | ple Numbers <u>TB1214890</u> | 09, SW068009, S | W067009, SW066009, SW031009, SW036009 | | | | | | | | | | | |
| | | Data As | sessment Summary | | | | | | | | | | | |
| | | VOA | Comments | | | | | | | | | | | |
| 1. | Holding Times | | Action Items 1,2,6 | | | | | | | | | | | |
| 2. | GC/MS Tune/Instr. Perf. | <u>v</u> | | | | | | | | | | | | |
| 3. | Calibrations | A | Action Item 3; Comment 1 | | | | | | | | | | | |
| 4. | Blanks | A | Action Items 4,5 | | | | | | | | | | | |
| 5, | Surrogates | <u>V</u> | | | | | | | | | | | | |
| 6. | Matrix Spike/Dup. | V | | | | | | | | | | | | |
| 7. | Other QC | V | | | | | | | | | | | | |
| 8. | Internal Standards | <u>R*, A</u> | Action Item 6 | | | | | | | | | | | |
| 9. | Compound Identification | V | · | | | | | | | | | | | |
| 10. | System Performance | R*, A | Action Item 6; Comment 2 | | | | | | | | | | | |
| 11. | Overall Assessment | R*, A | Data acceptable with qualifications or rejected. | | | | | | | | | | | |
| | V = Data had no problems. A = Data acceptable but qualified due to R = Data rejected. X = Problems, but do not affect data. | problems. | *Not all samples are rejected. | | | | | | | | | | | |
| Data | a Quality: Data contained in th | is batch were review | ed and found to be acceptable with qualifications. Acceptable, | | | | | | | | | | | |
| quali | fied data may be used provided that | at individual values i | mpacted by the "Action Items" listed below are appropriately flagged. | | | | | | | | | | | |
| (Refe | er to attached Results Summary Ta | bles.) | | | | | | | | | | | | |
| | | | ADMIN RECORL | | | | | | | | | | | |
| | | R CLASSIFICATION | REVIEWED FOR CLASSIFICATION/UCNI By Scorge H. Setlock 12g684/voa Date 6/27/90 | | | | | | | | | | | |

| Action Items: 1) All results for all compounds in samples SW067009, SW066009, SW031009, and SW036009 |
|---|
| are rejected (R) because of holding times. Thirteen days passed between sample receipt and analyses; fifteen days |
| passed between sampling and analyses. |
| 2) All results for all compounds in sample TB121489009 are estimated (J) or estimated and undetected (UJ) |
| because holding times were exceeded. Twelve days passed between sample receipt and analyses; fourteen days |
| passed between sampling and analyses. |
| 3) In the initial and continuing calibrations Acetone's and 2-Butanone's %RSDs and %Ds exceeded 50%. |
| Therefore, if the results for these compounds in all samples were not qualified under other criteria (holding time or |
| blank criteria) positive results would be estimated (J) and non-detects would be rejected (R) for this reason. |
| 4) As a result of contamination in the method blank, the positive results for Methylene Chloride and Acetone |
| in sample TB121489009 are estimated and undetected (UJ) as per the Functional Guidelines criteria (5x and 10x |
| rules). |
| 5) As a result of contamination in the method blank all positive results for Methylene Chloride, Acetone, and |
| Toluene in samples SW068009, SW067009, SW066009, SW031009, and SW036009 would normally be estimated |
| and undetected (UJ) as per the Functional Guidelines criteria (5x and 10x rules). However, because these results |
| are rejected this qualification was not imposed (See Action Items 1,6). |
| 6) All results for all compounds in sample SW068009 are rejected (R) for several reasons. Area counts of all |
| three internal standards were very low. There was large interference early in the chromatogram; also, there was a |
| drop in the baseline and an overall baseline shift in the sample chromatogram. Additionally, twelve days passed |
| between sample receipt and analyses; fourteen days passed between sampling and analyses. Non-detects in this |
| sample could be rejected because of the low internal standard areas alone; however as a result of all of the problems |
| with this sample, all results (positive and non-detected results) are rejected (R). |
| Comments: 1) In the initial calibration, surrogates should have been run at five separate concentration levels. |
| This does not affect the data. |
| 2) Large, early eluting interference and baseline shifts were observed in all sample analyses. Note: Data Summary Tables are attached. |
| <u>Jelf Llaschlır</u> 3-19-90 Reviewer Signature Date |
| Reviewer Signature Date |

TABLE #:
SITE NAME: 8912G684

881 Hillside

CLP VOLATILE ORGANIC ANALYSIS: Low Water

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ANALYTICAL RESULTS (ppb)

| Total Organic Concentration (ppb) U Indicates the compound was not detected above the Required Quantitation Limit. | | Total Ossanio | | Xvienes (Total) 5 | | Ethylbenzene 5 | enzene | | 1,1,2,2-Tetrachloroethane 5 | thene | | 4-Methyl-2-pentanone 10 | Bromoform 5 | -Dichloropropene | | 1,1,2-Trichloroethane 5 | nethane | | ene | | omethane | | Carbon tetrachloride 5 | proethane | -4 | bethane | | (Total) | | æ | disuffide | | oride | | Vinyl chloride 10 | | ane | īd. | Volatile CROL | | Sampling Date | Sample Number VBLK | Sample Location |
|--|---------------------|---------------|---|-------------------|-------|----------------|--------|-------|-----------------------------|-------|--------|-------------------------|-------------|------------------|---|-------------------------|---------|-------|-------|-------|----------|--------|------------------------|-----------|----------|---------|-------|---------|-------|-------|-----------|----------|-------|--------|-------------------|--------|--------|-----|---------------|--------------|---------------|--------------------|-----------------|
| • | the Require | 28 | | | | | | 7 ppb | | | | | | | | | | | | | | | | | | | | | | | | 9 PQ: | 4 ppb | | | | | 8 | | Method Blank | | | |
| | d Quantitation Limi | ភ | 1 | ٤ | 5 W A | 5 W A | 5 W A | 5 W A | 5 W A | 5 W A | 10 W A | 10 W A | 5 W A | 5 W A | | 5 W A | 5 W A | 5 W A | 5 W A | 5 W A | 5 W A | 10 W A | 5 W A | ٤ | 4 | 5 W A | 5 W A | 5 W A | 5 W A | 5 W A | | 12 W A | ٤ | 10 W A | 10 W A | 10 W A | 10 W A | B | | Trip Blank | 12/14/89 | TB121489009 | |
| | | 4 | ١ | ح | 5 U R | 8 U S | 5 U R | 5 U R | 5 U R | 5 U R | c | 10 U R | 5 U R | _ | c | 5 U R | 5 U R | c | 5 U R | c | 5 U R | c | 5 U R | 딕 | 4 | 5 U R | 5 U R | 5 U R | 5 U R | 5 U R | 5 U R | 10 U R | 4 | 10 U R | 10 U R | 10 U R | 10 U R | DΩ | | | 12/14/89 | SW068009 | |
| | | С'n | | ᅵ | ح | 8 U 8 | c | ح | 5 U R | c | c | 10 U R | c | 5 U R | C | C | c | c | c | c | c | C | 5 U R | _ | | c | C | 5 U R | c | C | 5 U R | _ | 5 A | 10 U R | C | 10 U R | C | DQ | | | 12/14/89 | SW067009 | |
| | | 4 | | ł | 5 U R | 5 U R | c | c | | c | c | 10 ∪ R | c | | C | c | c | ł | c | c | 5 U R | c | 5 U R | | _ | c | C | U | c | C | 5 U R | 10 U R | 4 R | 10 U R | C | 10 U R | 10 U R | DQ | - | | 12/14/89 | SW066009 | |
| | | 27 | ١ | 5 U R | _ | C | | 5 U R | 1 | c | c | c | c | c | C | ⊂ | ┌ | c | c | ⊂ | | ┌ | | | _ | C | 5 U R | 5 U R | C | c | c | | | U | C | _ | c | | | | 12/14/89 | SW031009 | |
| | DQ Data Qualifier | 24 | | 익 | | _ | _ | | 5 U R | c | c | | c | c | c | ┌ | c | c | c | c | c | c | 5 C R | c | c | C | c | c | C | ⊂ | C | 10 U R | | 10 U R | c | | c | 8 | | | 12/14/89 | SW036009 | |
| Valid | alifier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | : | | | | | | | | |
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J Quantitation is approximate due to limitations identified during the quality control review. Exceeds calibration range, dilute & reanalyze.

g684L/rk46

CROL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).